

IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) An information providing apparatus ~~for a vehicle~~ for transmitting desired information to information equipment loaded on ~~[[the]]~~ a vehicle, comprising:

communication means for sending and receiving desired data ~~by means of using~~ radio communications; and

control means for monitoring a remote control signal from an electronic key corresponding to a key-less entry system for the vehicle via said communication means, and for controlling operations of information output means for storing said information and sending said information to said vehicle as well as operations of the communication means~~[[;]], wherein said control means monitors a remote control signal from an electronic key relating to a key-less entry system via said communication means, and~~ said control means starts up operations of said information output means ~~according to~~ using the remote control signal from said electronic key as a trigger to transmit said desired information to said vehicle.

2. (Currently Amended) ~~[[A]]~~ An information providing apparatus for a vehicle according to claim 1, wherein said information output means sends said information via said communication means to said vehicle.

3. (Currently Amended) ~~[[A]]~~ An information providing apparatus for a vehicle according to claim 1, wherein said control means identifies said vehicle relating to said remote control signal from said electronic key by sending and receiving desired information

via said communication means, and transmits said desired information to the vehicle ~~based on~~  
using a result of said identification.

4. (Currently Amended) A vehicle capable of downloading desired information stored in prespecified information storage means, comprising:

communication means for receiving a remote control signal from an electronic key relating to a key-less entry system; and

control means for sending and receiving desired data via said communication means[[:]], wherein said control means executes an operation for locking a door of a vehicle with said remote control signal from the corresponding electronic key detected via said communication means, and then acquires said desired information received by said communication means according to said remote control signal as a trigger.

5. (Currently Amended) The vehicle according to claim 4, wherein said control means sends and receives prespecified information with a sender of said information based on information received by said communication means according to said remote control signal as a trigger to execute processing for mutual authentication, and then acquires said desired information ~~based on~~ using a result of processing for the mutual authentication.

6. (Currently Amended) A method of providing information to a vehicle by transmitting desired information stored in prespecified information storage means to the vehicle, comprising ~~the steps of~~:

starting up operations of said information storage means in response to a remote control signal from an electronic key relating to a key-less entry system as a trigger; and

providing said desired information to the vehicle corresponding to said remote control signal.

7. (Currently Amended) A method of providing information to a vehicle according to claim 6 further comprising ~~the step of~~:

providing said desired information via communication means relating to said remote control signal stored in said corresponding vehicle.

8. (Currently Amended) A method of providing information to a vehicle according to claim 6 further comprising ~~the step of~~:

executing processing for mutual authentication with said corresponding vehicle to provide said desired information ~~based on~~ using a result of processing for the mutual authentication.

9. (New) An information providing apparatus for transmitting desired information to information equipment loaded on a vehicle, comprising:

a communication unit configured to send and receive desired data using radio communications; and

a control unit configured to monitor a remote control signal from an electronic key corresponding to a key-less entry system for the vehicle via said communication unit, to control operations of an information output unit configured to store said information and send said information to said vehicle, to control operations of said communication unit, and further to initiate operations of said information output unit using the remote control signal from said electronic key as a trigger to transmit said desired information to said vehicle.

10. (New) An information providing apparatus for a vehicle according to claim 1, wherein said information output unit is further configured to send said information via said communication unit to said vehicle.

11. (New) An information providing apparatus for a vehicle according to claim 1, wherein said control unit is further configured to identify said vehicle relating to said remote control signal from said electronic key by sending and receiving desired information via said communication unit, and transmit said desired information to the vehicle using a result of said identification.